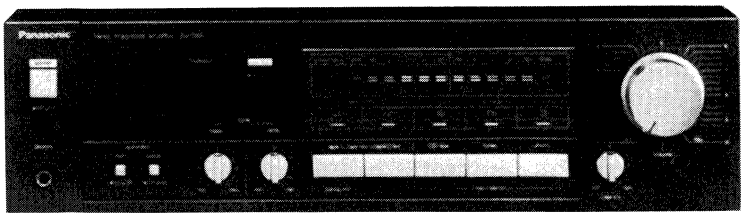
ORDER NO. HAD8705121C1
A1

Service Manual

Stereo Integrated Amplifier

Amplifier

SU-363



Color

(K) .... Black Type

Color	Areas
(K)	[M] ..... U.S.A.

System
SC-3630

SPECIFICATIONS (IHF' 78)

■ AMPLIFIER SECTION

Rated minimum sine wave RMS power output
20 Hz~20 kHz both channels driven
0.09% total harmonic distortion
100W per channel (8 ohms)

1 kHz continuous power output
both channels driven
0.09% total harmonic distortion
105 W per channel (8 ohms)

Dynamic headroom 1.5 dB (8 ohms)
Total harmonic distortion
half power at 1 kHz 0.09% (8 ohms)
SMPTE intermodulation distortion
0.09% (8 ohms)

Frequency response
PHONO RIAA standard curve ±0.8 dB
TUNER, CD/AUX, TAPE 1, TAPE 2/EXT
10 Hz~70 kHz, −3 dB

Input sensitivity
PHONO 0.3 mV (2.5 mV, IHF '66)
TUNER, CD/AUX, TAPE 1, TAPE 2/EXT
17 mV (150 mV, IHF '66)

S/N (IHF, A)
PHONO 74 dB (71 dB, IHF '66)
TUNER, CD/AUX, TAPE 1, TAPE 2/EXT
78 dB (97 dB, IHF '66)

Maximum input voltage
PHONO 130 mV (140 mV, 1 kHz)

Input impedance
PHONO 47 kilohms
TUNER, CD/AUX, TAPE 1, TAPE 2/EXT
18 kilohms

Tone controls
BASS 50 Hz, +10 dB~−10 dB
TREBLE 20 kHz, +10 dB~−10 dB
Loudness control (volume at -30 dB)
50 Hz, +9 dB
Output voltage TAPE 1, 2 REC OUT 150 mV
Low frequency damping factor 50 (8 ohms)
Load impedance MAIN or REMOTE 8~16 ohms
MAIN and REMOTE 8~16 ohms

■ GENERAL

Power consumption 350W, 460 VA
Power supply AC 120V, 60 Hz
Dimensions (W×H×D) 430 × 119 × 240 mm
(16-15/16" × 4-11/16" × 9-7/16")
Weight 6.5 kg (14.3 lb.)

Note:
Total harmonic distortion is measured by the digital spectrum analyzer (H.P. 3045 system).
Specifications are subject to change without notice for further improvement.

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Panasonic®

Matsushita Services Company
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Secaucus, New Jersey 07094

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Victoria Industrial Park
Carolina, Puerto Rico 00630

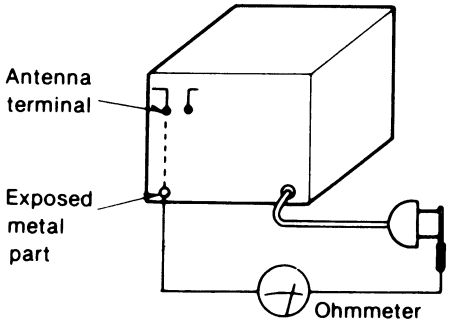
■ SAFETY PRECAUTION (This "Safety Precaution" is applied only in U.S.A.)

1. Before servicing, unplug the power cord to prevent an electric shock.
2. When replacing parts, use only manufacturer's recommended components for safety.
3. Check the condition of the power cord. Replace if wear or damage is evident.
4. After servicing, be sure to restore the lead dress, insulation barriers, insulation papers, shields, etc.
5. Before returning the serviced equipment to the customer, be sure to make the following insulation resistance test to prevent the customer from being exposed to a shock hazard.

• INSULATION RESISTANCE TEST

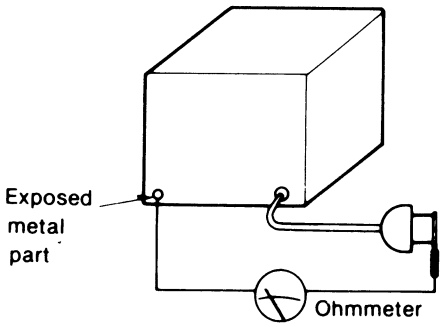
1. Unplug the power cord and short the two prongs of the plug with a jumper wire.
2. Turn on the power switch.
3. Measure the resistance value with ohmmeter between the jumpered AC plug and each exposed metal cabinet part, such as screwheads antenna, control shafts, handle brackets, etc. Equipment with antenna terminals should read between 3MΩ and 5.2MΩ to all exposed parts. (Fig. A) Equipment without antenna terminals should read approximately infinity to all exposed parts. (Fig. B)

Note: Some exposed parts may be isolated from the chassis by design. These will read infinity.



(Fig. A)

Resistance = 3MΩ—5.2MΩ



(Fig. B)

Resistance = Approx ∞

4. If the measurement is outside the specified limits, there is a possibility of a shock hazard. The equipment should be repaired and rechecked before it is returned to the customer.

■ PROTECTION CIRCUITRY

The protection circuitry may have operated if either of the following conditions is noticed:

- No sound is heard when the power is turned on.
- Sound stops during a performance.

The function of this circuitry is to prevent circuitry damage if, for example, the positive and negative speaker connection wires are "shorted", or if speaker systems with an impedance less than the indicated rated impedance of this unit are used.

If this occurs, follow the procedure outlines below:

1. Turn off the power.
2. Determine the cause of the problem and correct it.
3. Turn on the power once again after one minute.

Note

When the protection circuitry functions, the unit will not operate unless the power is first turned off and then on again.

■ BEFORE REPAIR

Disconnect AC power, Discharge both Power Supply Capacitors C703 and C704 through a 10Ω, 5W resistor to ground.
DO NOT SHORT-CIRCUIT DIRECTLY (with a screwdriver blade, for instance), as this may distroy solid state devices.
After repairs are completed, restore power gradually using a variac, to avoid overcurrent.
Current consumption at 120V, 60Hz in NO SIGNAL mode should be 230 ~ 390mA.

■ LOCATION OF CONTROLS

• Power switch (power)

• Loudness switch (loudness)

Set to the "on" position when listening to music at low volume. Auditory perception of sound in the low frequency range falls off at low volume, but when the switch is in this position, this deficiency is compensated for, so that the full impact of the musical performance can be enjoyed.

Tape-monitor selectors/indicators (tape mon)

When the indicator for the "tape 1" selector illuminates:
You can play back or monitor the sound from tape deck of this system or to record from tape deck of this system to a second tape deck connected to the "TAPE2/EXT" terminals.

When the indicator for the "tape2/ext" selector illuminates:
You can play back or monitor the sound from a second tape deck, etc. connected to the "TAPE2/EXT" terminals.

When neither indicator illuminates: You can listen to the sound source selected by one of the input selectors.

Note: If both indicators illuminate, only the sound from equipment connected to the "TAPE2/EXT" terminals will be heard.

• Peak-power meters (power level meter)

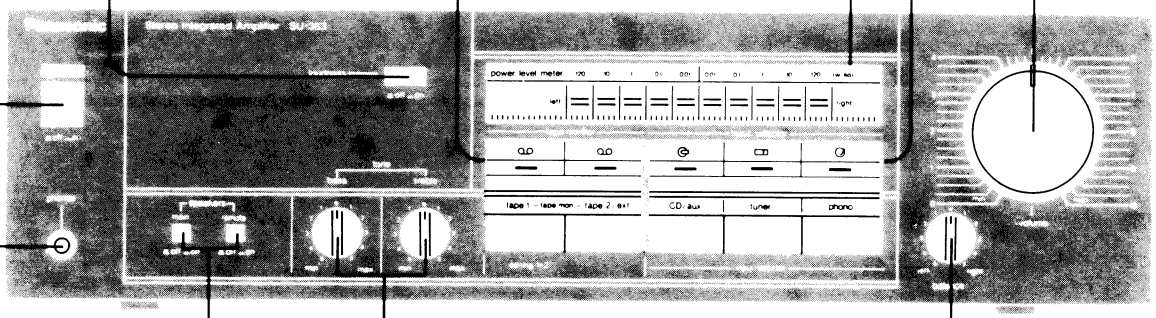
These meters indicate the peak-power value of the output level to the speaker systems.

• Input selectors/indicators (input selector)

These selectors are used to select the sound source to be heard, such as a disc, radio broadcast, etc. The corresponding indicator illuminates during operation to indicate the selected sound source.

• Volume control (volume)

This control is used to adjust the volume level



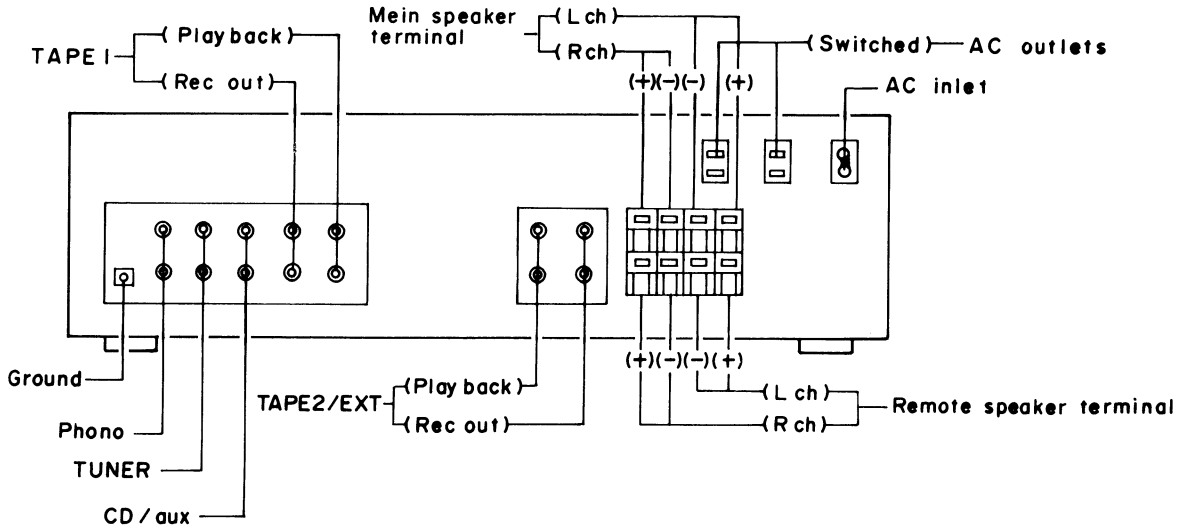
• Headphones jack (phones)

• Tone controls (bass/treble)

• Balance control (balance)

• Speaker selectors (speakers)

These selectors are used to turn the speaker systems on and off.

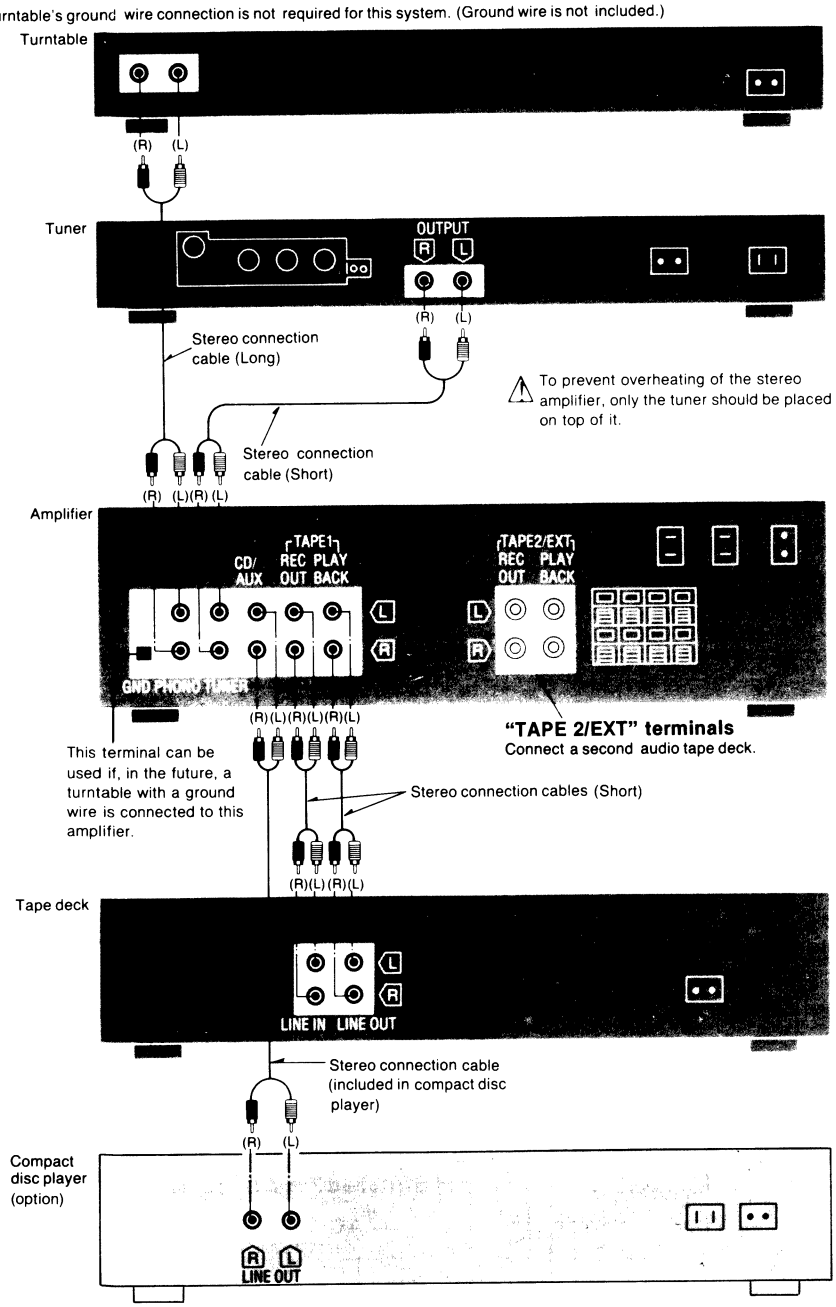


D

■ HOW TO CONNECTION

Connection of cables

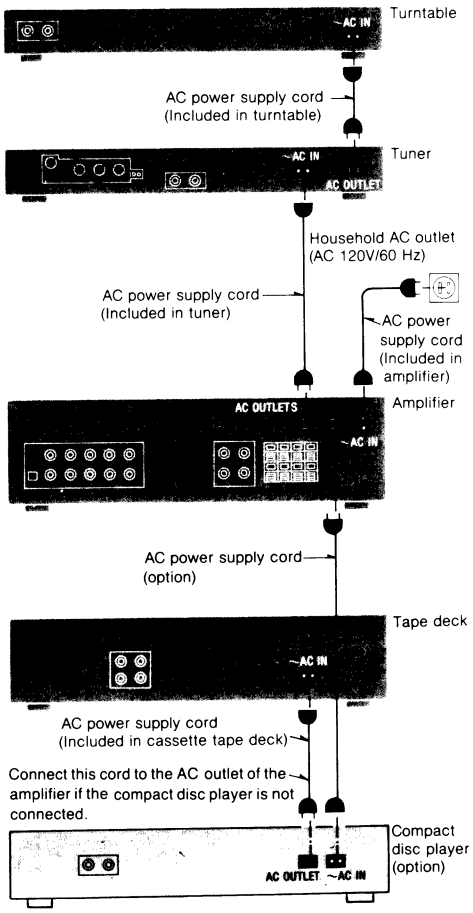
This turntable's ground wire connection is not required for this system. (Ground wire is not included.)



⚠ To prevent overheating of the stereo amplifier, only the tuner should be placed on top of it.

Note:
Be sure to use the power cord included with each unit, because some power cords are polarized and some are non-polarized (plug shapes are different).

Connection of AC power supply cords



AC outlets

■ "UNSWITCHED" outlets:

Power is always available, regardless of the units power switch setting.

(For Tuner)

Audio equipment rated up to 100W can be connected.

■ "SWITCHED" outlets:

Power is controlled by power switch of the amplifier.

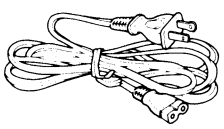
(For Amplifier)

Audio equipment rated up to 120 W (total for all outlets) can be connected.

■ ACCESSORY

- AC power supply cord 1

SJA172–1



■ DISASSEMBLY INSTRUCTIONS

Ref. No. 1	How to remove the front panel.
Procedure 1	1. Remove the cabinet top. 2. Pull out the 4 knobs (❶ ~ ❹). 3. Remove the 3 screws (❺ ~ ❼). 4. Remove the 4 nuts (❽ ~ ⓫). 5. Remove the connector.

"ATTENTION SERVICER"
SOME CHASSIS COMPONENTS MAY HAVE SHARP EDGES. BE CAREFUL WHEN DISASSEMBLING AND SERVICING.

Remove the knob
Wind cellophane tape around the knob and pull it in the direction of the arrow as shown in Fig. 1.

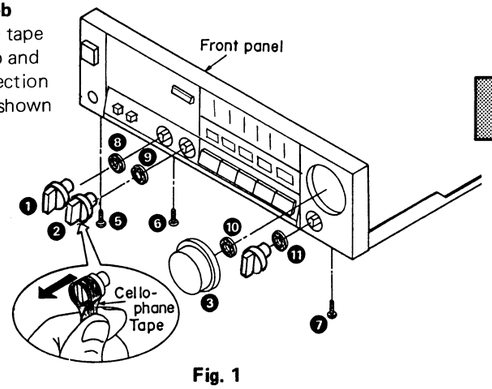


Fig. 1

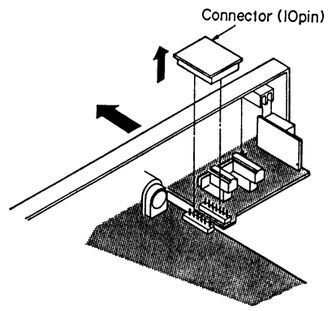


Fig. 2

Ref. No. 2	How to remove P.C.B.'s.
Procedure 1 →2	1. Unlock the 2 tabs. 2. Remove the volume P.C.B. 3. Remove the 2 screws (❶ , ❷). 4. Remove the super bass P.C.B. 5. Remove the 3 screws (❸ ~ ❺). 6. Remove the selector P.C.B. 7. Remove the 2 screws (❻ , ❼). 8. Remove the power indicator P.C.B.

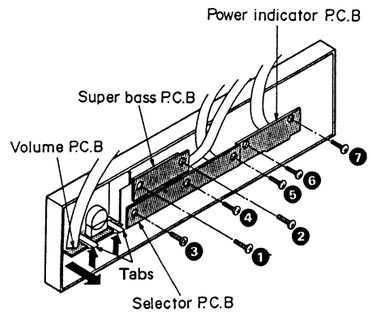


Fig. 3

9. Remove the power switch knob.
10. Remove the 1 screw (❽).
11. Remove the power switch P.C.B.

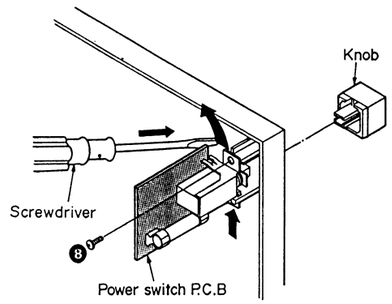


Fig. 4

Remove the knob by pusing it from behind the panel as shown in Fig. 4.

12. Unlock 1 tab.
13. Remove the headphones P.C.B.

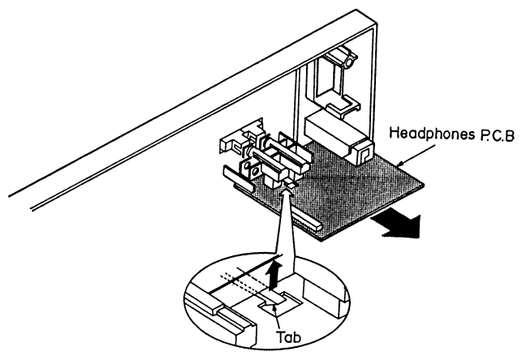


Fig. 5

Ref. No. 3	How to remove the main P.C.B.
Procedure 3	1. Remove the 9 screws (❶ ~ ❾). 2. Remove the main P.C.B.

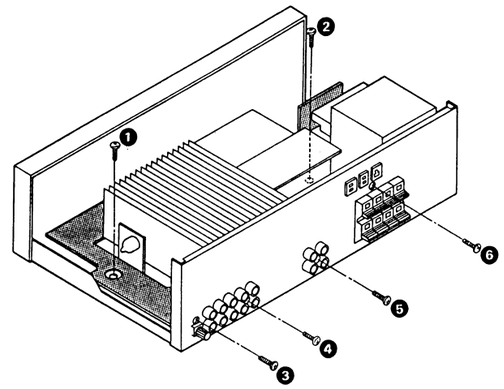


Fig. 6

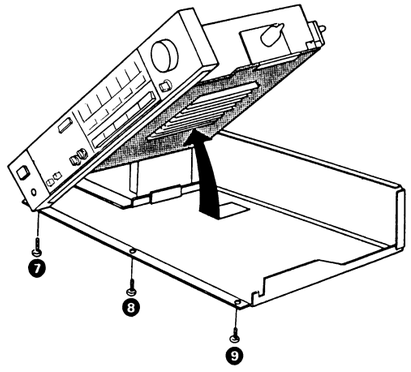


Fig. 7

Ref. No. 4	How to remove the power amplifier IC. (IC501)
Procedure 3 →4	1. Unsolder the power IC. 2. Remove the 2 screws (❶ , ❷). 3. Remove the sub heat-sink. 4. Remove the 2 screws (❸ , ❹).

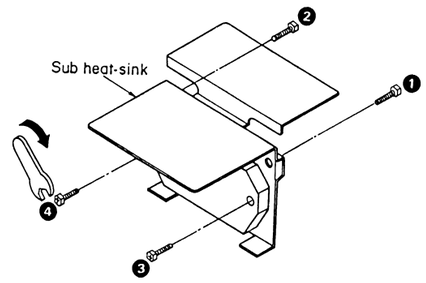


Fig. 8

- When mounting the power IC, apply silicon thermal compound (SZZ0L15 or equivalent) to the rear of the power IC.

Ref. No. 5	How to remove the bottom board
Procedure 5	Remove the 11 screws (❶ ~ ⓫).

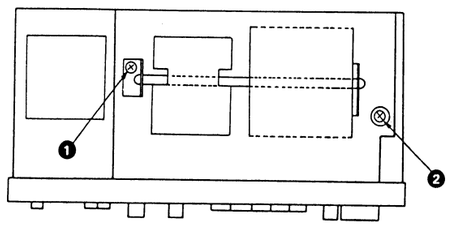


Fig. 9

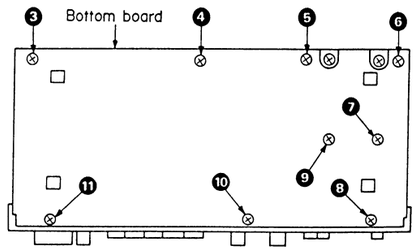


Fig. 10

NTS MAY HAVE
FUL WHEN
RVICING.

nector (10pin)

dicator P.C.B

C.B.

Headphones P.C.B

Ref. No. 3	How to remove the main P.C.B.
Procedure 3	1. Remove the 9 screws (❶ ~ ❾). 2. Remove the main P.C.B.

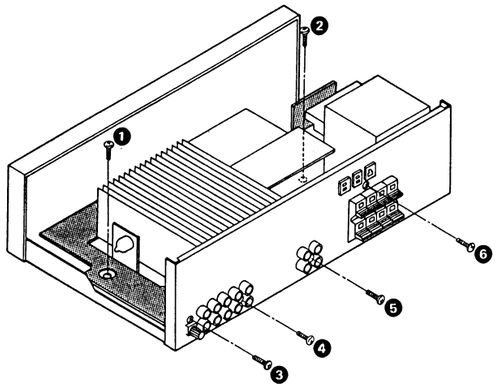


Fig. 6

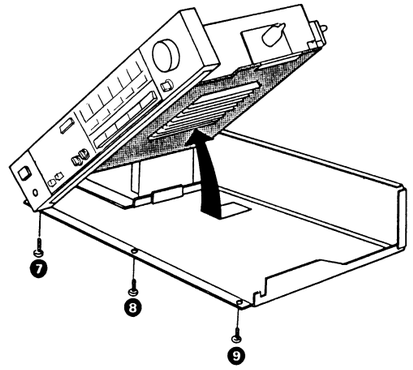


Fig. 7

Ref. No. 4	How to remove the power amplifier IC. (IC501)
Procedure 3 →4	1. Unsolder the power IC. 2. Remove the 2 screws (❶ , ❷). 3. Remove the sub heat-sink. 4. Remove the 2 screws (❸ , ❹). ● When mounting the power IC, apply silicon thermal compound (SZZ0L15 or equivalent) to the rear of the power IC.

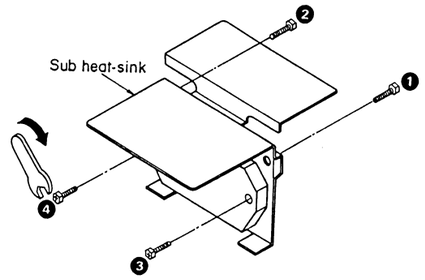


Fig. 8

Ref. No. 5	How to remove the bottom board
Procedure 5	Remove the 11 screws (❶ ~ ⓫).

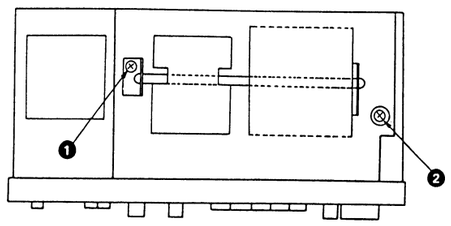


Fig. 9

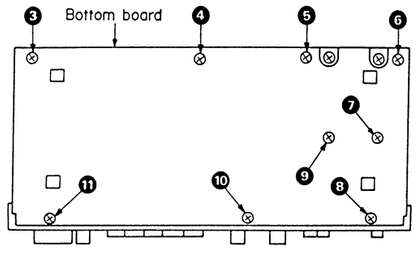
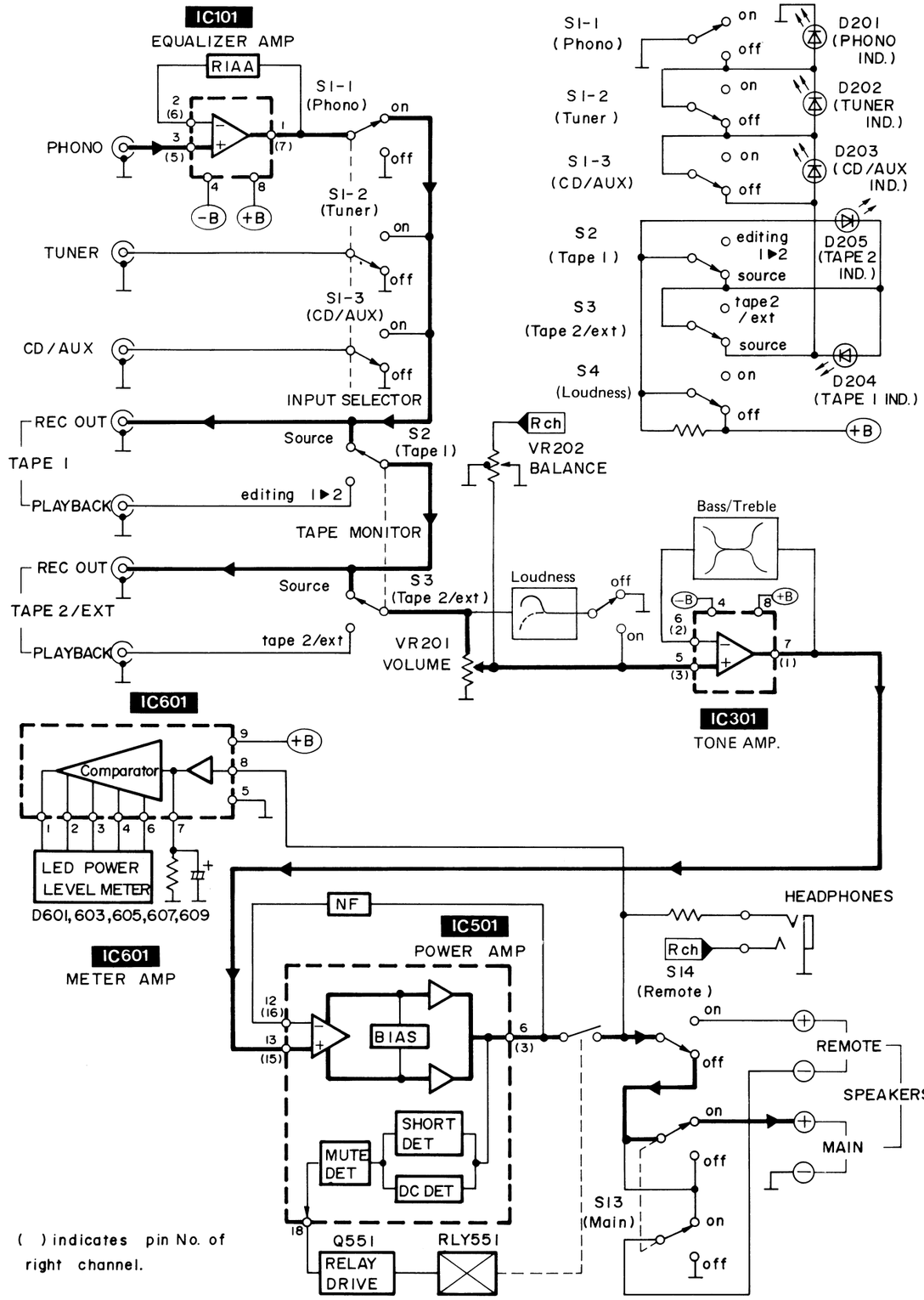


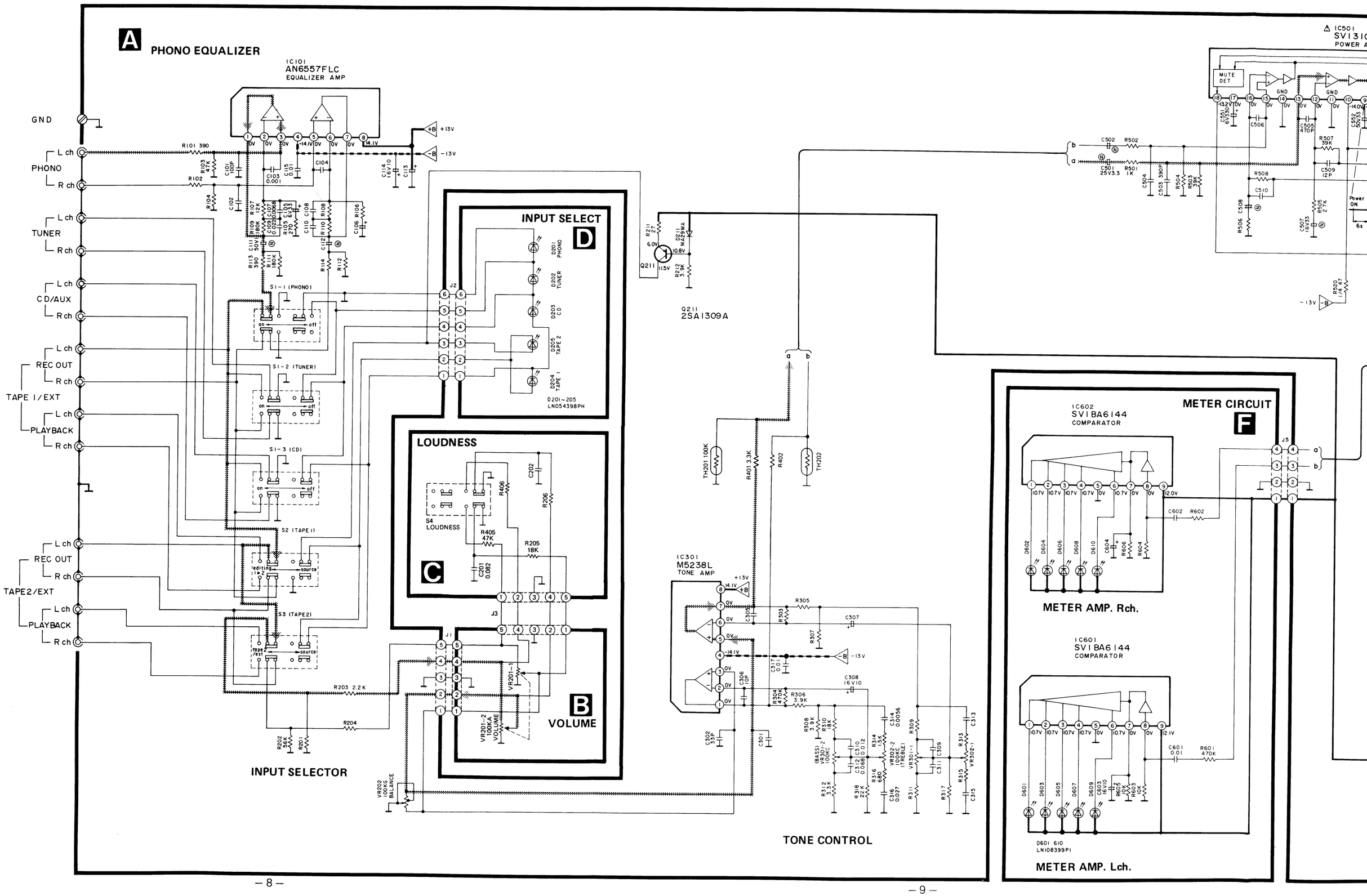
Fig. 10

■ BLOCK DIAGRAM



( ) indicates pin No. of right channel.

■ SCHEMATIC DIAGRAM



POWER AMPLIFIER

△ IC501
SV13105B
POWER AMP

MUTE DET
GND
AC IN
-B +B
-13.2V 0V 0V 0V 0V 0V -14.0V -4.2V -0.04V 14.0V 30V -62.3V 62.1V 0V -7.1V -7.1V

C551 47/330 6V
C506
C505 470P
C552 50V33
C553 0.22
R551 47K
R507 39K
C509 12P
R511 10
L501
L502
R512
R508
C510
C508
R506
C504
C503 390P
R504
R503 39K
C502 R502
C501 25V3.3 R501 1K
R505 2.7K
C507 0.033
Power ON
0V
42V
6s
C511 0.047
R509 1/4 4.7
C512 R510
R520 1/4 47
-13V -B
R552 12K
Q551
0V
-0.8V
-1.0V
RLY551
D551 MA165
R554 8.2K
R553 2W 1.5K
Q551
2SA992
RELAY DRIVE

INPUT SELECT D

D201 PHONO
D202 TUNER
D203 CD
D205 TAPE 2
D204 TAPE 1
D201~205
LN054398PH

R211 22
6.0V
10.8V
D211 MA28WA
Q211
11.5V
R212 3.9K
Q211
2SA1309A

C202
R206
R205 18K
VR201-1

B VOLUME

a b
TH201 100K
R401 3.3K
R402
TH202

IC301
M5238L
TONE AMP
+13V
14.1V +B
0V
-14.1V
-B -13V
C305
R303
R305
C307
R307
C301
C308 16V10
C306
R304 470K
R306 3.9K
C302 33P
C301
R308 3.9K
R310 18K
C310 0.012
C312 0.068
R316 680
C316 0.027
R312 3.3K
R318 22K
R314 1.5K
VR302-2 (TREBLE)
VR301-2 (BASS) 100KC
C314 0.0056
R309
VR301-1
C309
C311
R311
R317
R313
VR302-1
R315
C313
C315

TONE CONTROL

METER CIRCUIT F

IC602
SVIBA6144
COMPARATOR

J5
a
b
10.7V 10.7V 10.7V 10.7V 0V 10.7V 0V 0V 12.0V
C602 R602
D602 D604 D606 D608 D610
C604
R606 R604

METER AMP. Rch.

IC601
SVIBA6144
COMPARATOR

10.7V 10.7V 10.7V 10.7V 0V 10.7V 0V 0V 12.1V
C601 0.01
R601 470K
D601 D603 D605 D607 D609
C603 16V10
R605 10K
R607 10K
R603 10K

D601 610
LN108399PI

METER AMP. Lch.

E SPEAKER SW

HEADPHONES
R513 2W 330
R514
J6
S14 REMOTE
S13 MAIN
on
off

L ch
R ch
MAIN
SPEAKERS
L ch
R ch
REMOTE

I POWER SW

J AC IN/OUT

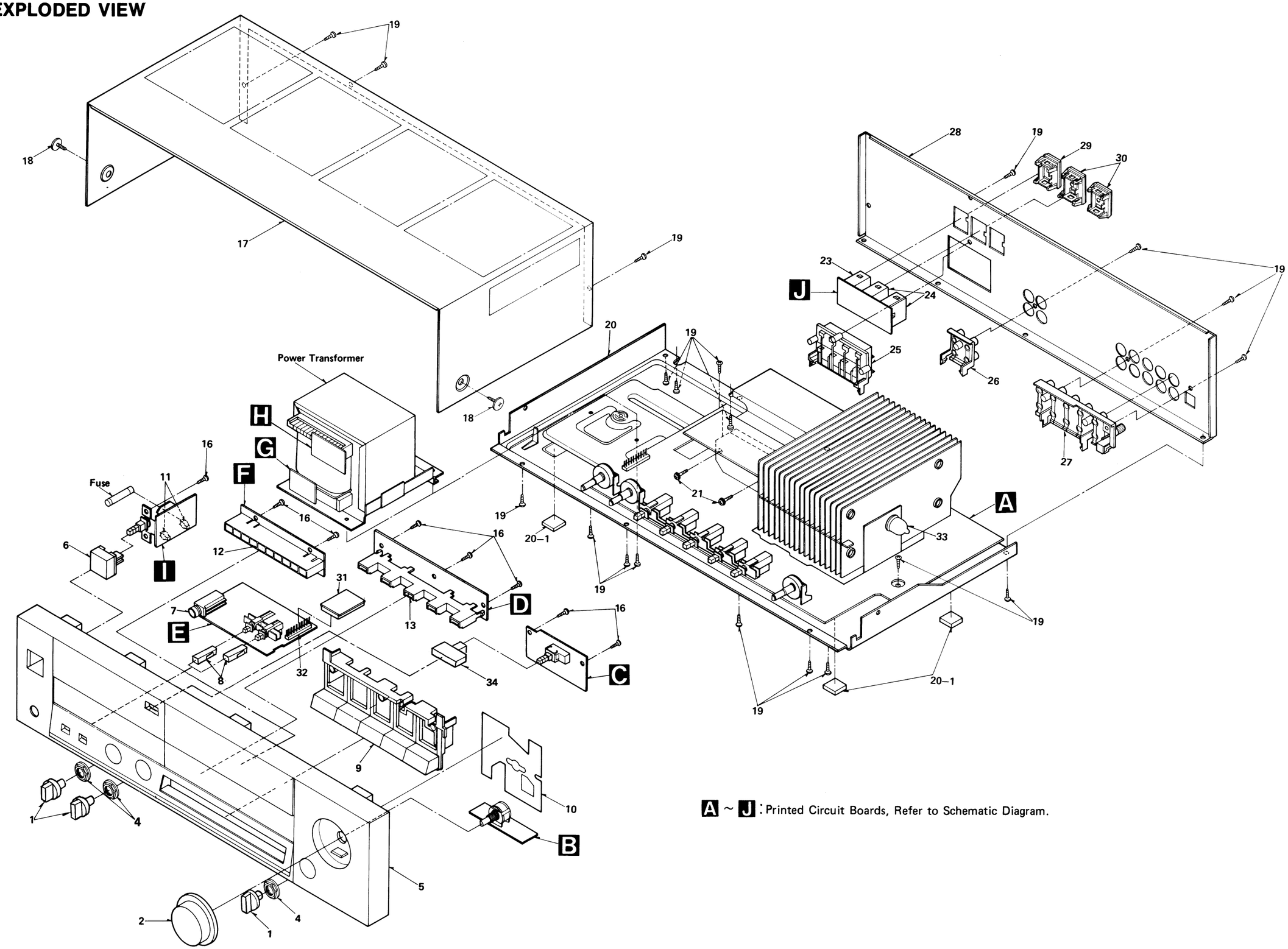
C701 0.01
S15 (POWER)
F1 125V 5A
AC 120V (60Hz)
AC OUTLET (SWITCHED)
AC OUTLET (SWITCHED)

R556 150K
D701~704
SVDS3V20
+13V +B
-13V -B
R703
R701 2W 1.8K
D704
D703
D705 MA4130
D706 MA4130
C703 71V1000
C704 71V1000
D702
D701
R704 120
R702 2W 1.8K
C702 001
AC46.1V
AC46.5V
AC9.9V
J7
T701
D711 1SR35200
C711 16V470

H POWER TRANSFORMER SECONDARY

G POWER TRANSFORMER PRIMARY

■ EXPLODED VIEW



A ~ **J** : Printed Circuit Boards, Refer to Schematic Diagram.

■ REPLACE

Notes: 1. Part nu
Please u
2. Importa
Compor
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use only

Ref. No.	Part
INTEGRATED CIRCUITS (ALL	
IC101	AN6557F
IC301	M5238L
IC501 ⚠	SVI3105
IC601, IC602	SVIBA61
TRANSISTORS	
Q211	2SA1309A
Q551	2SA992E
DIODES	
D201–, D205	LN0544
D211	MA29WA
D551	MA165
D601–, D610	LN108399
D701, D702 ⚠	SVDS3V4
D703, D704 ⚠	SVDS3V4
D705, D706	MA4130M
D711 ⚠	SVD1SR3

Ref. No.	Part
CABINET AND CHASSIS	
1	SBN1089
2	SBN1225
4	SNE4021
5	SGYU3
5-1	SGU564
6	SBC666
7	SJJ134B
8	SBC719
9	SBC940-4
10	SMC6438
11	SJT391
12	LN108399
13	LN0544
16	XTB3+8G
17	SKC1950
18	SNE2129
19	XTBS3+8

Ref. No.	Part
PACKINGS	
P1	SGP596
P2	SPS4714
P3	SPS4715

■ REPLACEMENT PARTS LIST

Notes: 1. Part numbers are indicated on most mechanical parts. Please use this part number for parts orders.
2. Important safety notice: Components identified by ⚠ mark have special characteristics important for safety. When replacing any of these components use only manufacturer's specified parts.
3. Bracketed indications in Ref. No. columns specify the area. Parts without these indications can be used for all areas.
4. The parenthesized numbers in the column of description stand for the quantity per set.

Ref. No.	Part No.	Part Code	Description
INTEGRATED CIRCUITS (ALL ESD)			
IC101	AN6557FLC	001 061 2819 8	I.C., EQ AMP.
IC301	M5238L	001 061 3522 8	I.C., TONE AMP
IC501 ⚠	SVI3105B	001 061 4021 0	I.C., POWER AMP.
IC601, IC602	SVIBA6144	001 060 8320 1	I.C., POWER LEVEL METER
TRANSISTORS			
Q211	2SA1309A-R	001 030 6079 7	TRANSISTOR
Q551	2SA992E	001 030 0513 4	TRANSISTOR
DIODES			
D201~D205	LN054415PH		
D211	MA29WA	001 032 7250 0	DIODE
D551	MA165	001 032 0494 0	DIODE
D601~D610	LN108399P1	001 033 0140 8	L.E.D ASS'Y
D701, D702 ⚠	SVDS3V40	001 032 1347 6	RECTIFIER
D703, D704 ⚠	SVDS3V40	001 032 1347 6	RECTIFIER
D705, D706	MA4130M	001 032 4960 9	DIODE
D711 ⚠	SVD1SR35200A	001 032 3951 4	RECTIFIER

Ref. No.	Part No.	Part Code	Description
VARIABLE RESISTORS			
VR201	EWJKXA066A15	001 174 9155 9	V.R., MAIN
VR202	EWHFKA004G15	001 174 5431 4	V.R., BARANCE
VR301, VR302	EWCSSAF20C15	001 174 8941 5	V.R., BASS, TREB
COILS AND TRANSFORMERS			
L501, L502	SLQY07G-4A	001 211 4090 3	CHOKE COIL
T701 ⚠	SLT5P268-KK	001 202 8992 9	POWER TRANSFORMER
FUSES			
F1 ⚠	XBA1F50NU14	002 380 0324 8	FUSE, T5A 125V
SWITCHES			
S3	SSH579	003 435 6326 2	SW
S4	SSH1228	003 435 6328 0	SW.
S13, S14	SSH2127	003 435 6328 0	SW
S15 ⚠	ESB8249V	003 435 5877 0	POWER SWITCH
S16	SSH1223	003 435 6101 7	SW
RELAYS			
RY551	SSY126	003 450 2686 0	RELAY

Ref. No.	Part No.	Part Code	Description
CABINET AND CHASSIS			
1	SBN1089-1	016 700 0412 8	KNOB, BASS, TREB
2	SBN1225-2	016 700 1983 4	KNOB, VOL
4	SNE4021	005 507 0372 5	NUT
5	SGYU363-KN		FRONT PANEL
5-1	SGU564A		FILTER
6	SBC666	016 702 5545 6	BUTTON, POWER
7	SJJ134B	003 400 7050 0	JACK, HEADPHONES
8	SBC719	016 702 6143 6	BUTTON
9	SBC940-4	016 702 7205 5	BUTTON
10	SMC6438	016 601 0624 0	SHIELD COVER
11	SJT391	003 410 7242 8	LUG TERMINAL
12	LN108399P1	001 033 0140 8	L.E.D ASS'Y
13	LN054415PH		L.E.D. ASS'Y
16	XTB3+8G	005 501 2607 7	SCREW
17	SKC1950K961	016 800 2793 7	CABINET
18	SNE2129-1	005 500 7938 6	SCREW
19	XTBS3+8JFZ1	005 501 2523 0	SCREW

Ref. No.	Part No.	Part Code	Description
20	SKUU363-KM		BOTTOM BOARD
20-1	SKL293	016 828 0269 8	RUBBER
21	SNE2118	005 500 5011 2	SCREW
22	XTW3+8T	005 501 1358 9	SCREW
23 ⚠	SJS9234B	003 400 5922 5	AC INLET
24 ⚠	SJS9233B	003 402 1993 6	AC OUTLET
25	SJF5812	003 410 8155 2	TERMINAL BOARD
26	SJF3057NK	003 410 8123 0	TERMINAL BOARD
27	SJF3062-1NK	003 410 8154 3	TERMINAL BOARD
28	SGPU363-KM		REAR PANEL
29 ⚠	SJS9234A	003 400 5921 6	AC INLET COVER
30	SJS9233A	003 410 6004 4	AC OUTLET COVER
31	SJS54	003 400 7801 5	SOCKET(10P)
32	SJT3041	003 410 8161 4	TERMINAL BOARD
33	SXE1156-1	016 630 1883 6	HEAT SINK
34	SBC800-1	016 702 6399 4	BUTTON
35	SMC1270	016 601 0654 4	SHIELD COVER
36	XSN3+6S	005 500 1449 2	SCREW
37	SUS863	016 726 0973 8	SPRING

Ref. No.	Part No.	Part Code	Description
PACKINGS			
P1	SGP5966		PACKING CASE
P2	SPS4714-1	016 977 3297 0	PAD
P3	SPS4715-1	016 977 3296 1	PAD

Ref. No.	Part No.	Part Code	Description
P4	SPP723	016 978 0207 5	PROTECTION COVER
ACCESSORIES			
A1 ⚠	SJA172-1	003 490 4930 5	POWER CORD
A3	SQF12948		INSTRUCTION BOOK

Printed in Japan
K 870503800 YY

Circuit Boards (Solder Side) and Wiring Diagram

Notes:

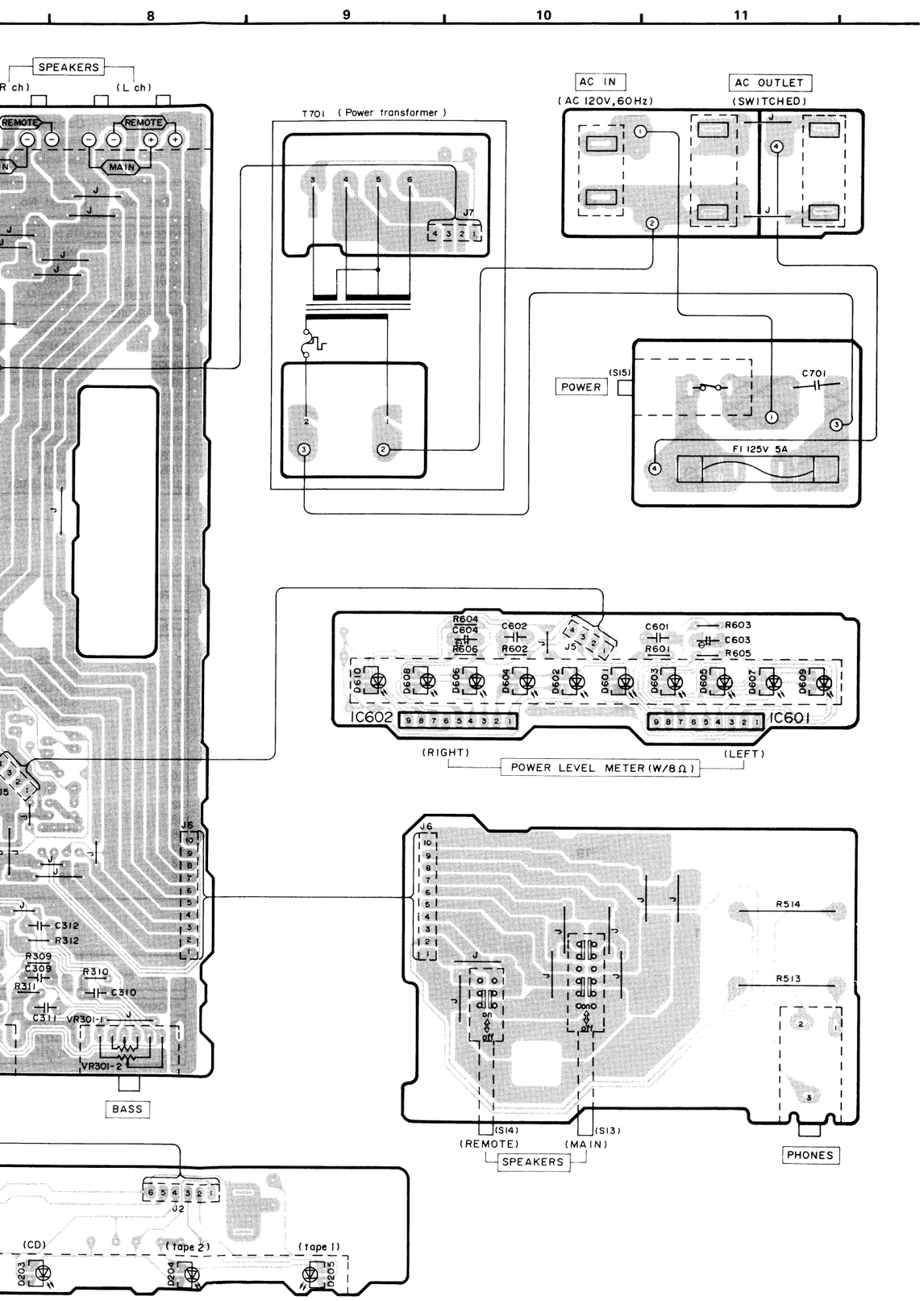
1. S1-1 ~ S1-3 : Input selector in "Tuner" position.
   S1-1 : phono
   S1-2 : tuner
   S1-3 : CD/aux
2. S2 : Tape monitor selector "Tape" switch.
3. S3 : Tape monitor selector, "Tape 2/ext" switch.
4. S4 : Loudness switch in "off" position.
5. S13 : Main speakers switch in "on" position.
6. S14 : Remote speakers switch in "off" position.
7. S15 : Power source switch in "on" position.
8. Indicated voltage values are the standard values for the unit measured by the DC electronic circuit tester (high-impedance) with the chassis as a standard.
   Therefore, there may exist some errors in the voltage values, depending on the internal impedance of the DC circuit tester.
   Measurement condition:
   Input selector – phono (no signal)
   Volume – Minimum
   Loudness – off
9. Positive (+B) voltage lines
10. Negative (–B) voltage lines
11. Signal lines (L channel)
12. Important safety notice:
    Components identified by ⚠ mark have special, characteristics important for safety.
    When replacing any of these components, use only manufacturer's specified parts.

*** Caution !**

IC and LSI are sensitive to static electricity. Secondary trouble can be prevented by taking precautions during repair.

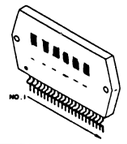
* Cover the parts boxes made of plastics with aluminum foil.
* Ground the soldering iron.
* Put a conductive mat on the work table.
* Do not touch the pins of IC or LSI directly with the fingers.

A Main (Power amp., In/Out Select, Tone, Power source)
B Volume
C Loudness switch
D Input select position indicators
E Speakers switch/Headphones jack
F Power level meter
G Power transformer (Primary)
H Power Transformer (Secondary)
I Power switch/Fuse
J AC Inlet/Outlet

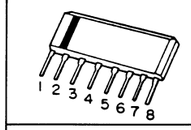


• Terminal guide of transistors, diodes and IC's

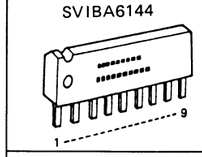
SVI3105B 18pin



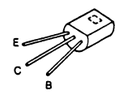
AN6557FLC
M5238L



SVIBA6144



2SA992E



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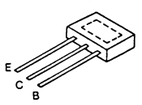
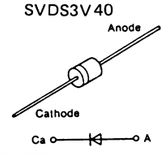
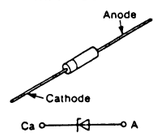


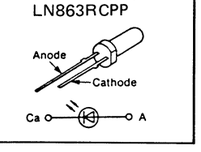
SVD1SR35200A
MA165
MA29WA
SVDS3V40



MA4130M



LN108399P1
LN051415PH
LN863RCPP



■ RESISTORS & CAPACITORS

Notes: * Important safety notice:
Components identified by ⚠ mark have special characteristics important for safety. When replacing any of these components use only manufacturer's specified parts.
* Bracketed indications in Ref. No. columns specify the area.
Parts without these indications can be used for all areas.

Numbering System of Resistor

Example

ERD	25	F	J	102
Type	Wattage	Shape	Tolerance	Value
ERX	2	AN	J	471
Type	Wattage	Shape	Tolerance	Value 47x10¹ (ohm)

Numbering System of Capacitor

Example

ECKD	1H	102	Z	F
Type	Voltage	Value	Tolerance	Peculiarity
ECEA	50	M		330
Type	Voltage	Peculiarity		Value (33x10⁰ microfarad)

Resistor Type	Wattage	Tolerance
ERD : Carbon ERG : Metal Oxide ERX : Metal Film ERQ : Fuse Type Metal ERD□□ L : Carbon (chip) ERG□□ K : Metal Film (chip) ERC : Solid	10 : 1/8W 12 : 1/2W 25 : 1/4W 1A : 1W 18 : 1/8W S2 : 1/4W S1 : 1/2W 2F : 1/4W 50 : 1/2W 2A : 2W	J : ±5% F : ±1% G : ±2% K : ±10%

Capacitor Type	Voltage	Tolerance
ECE : Electrolytic ECCD Ceramic ECKD Ceramic ECQM Polyester ECQP : Polyproylene ECG : Ceramic ECEA□□□N: Non Polar Electrolytic QCU□ : Ceramic (Chip Type) ECUX : Ceramic (Chip Type) ECF : Semiconductor EECW : Liquid electrolyte double layer capcitor	0J : 6.3V 1A : 10V 1C : 16V 1E : 25V 1H : 50V 1V : 35V 50 : 50V 05 : 50V 2H : 500V 2A : 100V 1 : 100V KC : 400V AC KC : 125VAC (UL) 1J : 63V	C : ±0.25pF J : ±5% K : ±10% Z : +80% −20% P : +100% −0% M : ±20% D : ±0.5pF G : ±2%

Ref. No.	Part No.	Part Code
RESISTORS		
R101, R102	ERDS2TJ391	001 152 2360 6
R103, R104	ERDS2TJ473	001 152 2363 3
R105, R106	ERDS2TJ271	001 152 2435 4
R107, R108	ERDS2TJ123	001 152 2424 7
R109, R110	ERDS2TJ184	001 152 2588 8
R111, R112	ERDS2TJ184	001 152 2588 8
R113, R114	ERDS2TJ391	001 152 2360 6
R201, R202	ERDS2TJ563	001 152 2446 1
R203, R204	ERDS2TJ222	001 152 2353 5
R205, R206	ERDS2TJ183	001 152 2429 2
R211	ERDS2TJ270	001 152 2434 5
R212	ERDS2TJ392	001 152 2439 0
R303, R304	ERDS2TJ474	001 152 2443 4
R305, R306	ERDS2TJ392	001 152 2439 0
R307, R308	ERDS2TJ392	001 152 2439 0
R309, R310	ERDS2TJ183	001 152 2429 2
R311, R312	ERDS2TJ332	001 152 2357 1
R313, R314	ERDS2TJ152	001 152 2350 8
R315, R316	ERDS2TJ681	001 152 2449 8
R317, R318	ERDS2TJ223	001 152 2432 7
R401, R402	ERDS2TJ332	001 152 2357 1
R405, R406	ERDS2TJ473	001 152 2363 3
R501, R502	ERDS2TJ102	001 152 2346 4
R503, R504	ERDS2TJ393	001 152 2440 7
R505, R506	ERDS2TJ272	001 152 2354 4
R507, R508	ERDS2TJ393	001 152 2440 7
R509, R510	ERD25FJ4R7	001 152 0303 3
R511, R512	ERDS2TJ100	001 152 2420 1
R513, R514	ERG2ANJ331	001 151 0154 3
R520	ERD25FJ470	001 152 0309 7
R551	ERDS2TJ473	001 152 2363 3
R552	ERDS2TJ123	001 152 2424 7
R553 ⚠	ERG2ANJ152	001 151 0130 1
R554	ERDS2TJ822	001 152 2455 0
R556	ERDS2TJ154	001 152 2427 4
R601, R602	ERDS2TJ474	001 152 2443 4
R603, R604	ERDS2TJ103	001 152 2347 3
R605, R606	ERDS2TJ103	001 152 2347 3
R701, R702 ⚠	ERG2ANJ182	001 151 0135 6
R703, R704	ERDS2TJ121	001 152 2349 1
CAPACITORS		
C101, C102	ECCD1H101K	001 103 0341 2
C103, C104	ECKD1H102KB	001 103 1414 8
C105, C106	ECEA0JK330	001 120 0141 1
C107, C108	ECFTD682KXL	001 108 0363 1
C109, C110	ECFTD223KXL	001 108 0342 6
C111, C112	ECEA1HN010S	001 120 0354 0
C113, C114	ECEA1CKS100	001 120 2600 7
C115	ECKD1H103PF	001 103 1449 7
C201, C202	ECFTD823KXL	001 108 0364 0
C301, C302	ECCD1H330K	001 103 0567 6
C305, C306	RCBS1H330JLY	001 103 5617 3
C307, C308	ECEA1CKS100	001 120 2600 7
C309, C310	ECFTD123KXL	001 108 0745 1
C311, C312	ECFTD683KXL	001 108 0346 2
C313, C314	ECFTD562KXL	001 108 0904 4
C315, C316	ECFTD273KXL	001 108 0343 5
C317	ECKD1H103PF	001 103 1449 7
C501, C502	ECEA1EN3R3S	001 120 0296 3
C503, C504	ECKD1H391KB	001 103 1544 9
C505, C506	ECKD1H471KB	001 103 1551 0
C507, C508	ECEA1CN330S	001 120 0240 9
C509, C510	RCBS1H120JLY	001 103 5578 3
C511, C512	ECQM1H473JZ	001 106 0810 9
C551	ECEA0JS331	001 120 2975 9
C552	ECEA1HS330	001 120 0383 5
C553	ECQM1H224JZ	001 106 0746 0
C601, C602	ECKD1H103PF	001 103 1449 7
C603, C604*	ECEA1CKS100	001 120 2600 7
C701	ECKWNS103ZV	001 103 8209 3
C702	ECKD2H103PE	001 103 1626 8
C703, C704 ⚠	ECES71V103VN	001 120 5525 9
C711	ECEA1CU471	001 120 3202 3